

DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1229
GALVESTON, TEXAS 77553-1229

May 2005
HYDROGRAPHIC BULLETIN

CHANNELS WITH PROJECT DEPTHS UNDER 25 FEET

A report of the depths available for navigation in the Federal Project Waterways of the Galveston District

★ Indicates changes from previous report

● Indicates dredging under contract

⊕ Indicates changes from previous report and dredging under contract

Distances are in statute miles

Depths are based on Corps of Engineers mean low tide datum

NOTE: Miles are measured west of Harvey Lock, Louisiana, via the channel across Galveston Bay and channel from Aransas Bay to Corpus Christi Bay.

NOTE: Mileage's are measured west of Harvey Lock, Louisiana, via the Gulf Intracoastal Waterway and Houston Ship Channel to the usual take-off points on Houston Ship Channel.

The main route of the Gulf Intracoastal Waterway traverses the following reaches of other waterways that are maintained under separate projects:

<u>Waterway</u>	<u>Reach</u>
Sabine - Neches Waterway	Sabine River to West Port Arthur
Port Isabel Channel	Port Isabel Turning Basin to Connecting Channels
Connecting Channel *	Port Isabel Channel to Brownsville Channel
Brownsville Channel	Connecting Channel* to Port Brownsville

* Channel connecting Port Isabel and Brownsville Channel called the East and West Wye's.

Critical reaches of the waterway. Interruptions to traffic may occur during rises in the Brazos River since it may not be practicable to operate the floodgates at this crossing during such periods. Some delays may occur at the Colorado River Locks while vessels are locked for passage across the river during rises. Experience thus far in operating the Brazos River Floodgates and the Colorado River Locks has indicated that shoaling during rises of short duration is usually negligible when the structures are kept closed and causes no interruptions to traffic. During major rises in the rivers; however, heavy shoaling may occur in the forebays of the structures; and at times, some dredging may be required before traffic can pass.

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PROJECT DIMENSIONS

PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
GULF INTRACOASTAL WATERWAY MAIN CHANNEL							
Sabine River - High Island	10/04	125	53.1	12	11.6	12.2	11.5
High Island - Galveston Bay	☼ 04/05	① 125	30.0	12	★ 7.3	★ 10.4	★ 1.3
Across Galveston Bay	☼ 04/05	② 125	7.2	12	8.0	11.3	8.1
Alternate Route via Galv. Ch.(REOPENED)	01/05	125	10.3	12	9.2	9.3	8.5
Galveston Bay - Chocolate Bayou	01/05	125	19.0	12	9.5	11.6	10.1
Chocolate Bayou - Freeport Harbor	01/05	125	19.0	12	10.8	11.3	10.1
Freeport Harbor - Brazos River	⑤ 12/04	125	5.9	12	8.1	9.1	9.7
Brazos River Crossing	☼ 04/05	③ 125	0.7	12	★ 8.9	★ 9.0	★ 4.1
Brazos River - San Bernard River	12/04	125	4.0	12	11.8	13.9	13.1
San Bernard River - Colorado River	☼ 04/05	125	35.6	12	★ 10.1	★ 10.6	★ 8.2
Colorado River Crossing	● 01/05	125	1.0	12	17.0	17.1	15.5
Colorado River - Matagorda Bay (Mile 461.6 WHL)	12/04	125	20.1	12	7.2	9.4	9.2
Mile 461.6 - Port O'Connor	03/05	125	11.1	12	15.2	14.0	14.6
Natural Bay Bottom	03/05	125	0.0	12	10.0	10.0	10.0
Port O'Connor - San Antonio Bay	07/04	125	19.0	12	9.1	10.5	9.9
Across San Antonio Bay	★ 04/05	125-235	8.6	12	★ 10.4	★ 12.0	11.0
San Antonio Bay - Aransas Bay (Light 1)	07/04	125	10.4	12	11.0	10.0	11.7
Across Aransas Bay	08/04	125	13.8	12	8.0	11.0	10.0
Aransas Bay to Corpus Christi Ship Channel	09/04	125	14.4	12	6.0	7.0	9.0
Alternate Route via Lydia Ann Channel:							
Aransas Bay 49 to Light 83	10/04	125	7.9	12	10.0	12.0	12.8
Light 83 to Corpus Christi Ship Channel	10/04	125	3.8	12	11.5	10.0	9.0
Corpus Christi Ship Channel to S. Bird Island	★ 04/05	125	25.2	12	★ 11.0	★ 12.0	10.0
S. Bird Island to Light 175	★ 04/05	125	22.5	12	10.0	11.0	★ 11.5
Light 175 - Banderia Island	★ 04/05	125	21.6	12	11.0	★ 12.0	★ 12.0
Banderia Island - Channel to Port Mansfield	03/05	125	23.2	12	10.0	11.0	10.0
Channel to Port Mansfield-Arroyo Colorado	03/05	125	14.5	12	11.0	12.2	12.0
Arroyo Colorado - Port Brownsville	03/05	125	37.6	12	11.0	12.5	⑨ 7.0

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PROJECT DIMENSIONS

PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
GULF INTRACOASTAL WATERWAY TRIBUTARY CHANNELS							
ADAMS BAYOU CHANNEL							
Channel	03/05	100	1.6	12	4.5	7.5	8.1
DOUBLE BAYOU							
4.1 Miles in Bay to Mouth of Bayou	10/03	125	4.1	7	4.0	6.0	6.0
Mouth of Bayou to 2 Miles above Mouth	10/03	100	2.0	7	5.0	6.0	5.0
COW BAYOU CHANNEL							
Channel	03/04	100	7.1	13	4.6	7.5	8.0
Orangefield Turning Basin	03/04	300	0.1	13	1.2	4.3	5.8
OFFATTS BAYOU CHANNEL							
Channel	5/04	125	2.2	12	5.0	6.8	5.3
CHOCOLATE BAYOU CHANNEL							
Bay Channel	01/05	125	5.6	12	7.2	9.3	7.9
Land Cut	01/05	125	2.9	12	7.4	7.0	6.2
SAN BERNARD RIVER CHANNEL							
Mile 0 to Mile 0.5	07/04	1032-100	0.5	9	3.3	8.1	4.2
Mile 0.5 to Mile 3.75	07/04	100	3.3	9	9.3	9.3	6.8
Mile 3.75 to Mile 8.0	4/94	100	4.3	9	n/a	9.0	n/a
Mile 8.0 to Mile 20.5	4/94	100	12.5	9	n/a	9.0	n/a
Mile 20.5 to Mile 25.2	4/94	100	4.7	9	n/a	9.5	n/a
Mile 25.2 to Mile 26.0	4/94	100	0.8	9	n/a	9.0	n/a
MOUTH OF THE COLORADO RIVER							
Mile 0 (Gulf) to Mile 0.8	12/04	200	0.8	15	6.1	0.1	0.1
Mile 0.8 to Mile 2.5	12/04	100	1.7	12	8.7	2.0	0.3
Mile 2.5 to Mile 7.11 (GIWW)	12/04	100	4.6	12	9.2	9.1	6.8

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SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
COLORADO RIVER CHANNEL							
By-Pass Channel	12/04	100	0.9	9	11.0	7.3	3.5
Mile 0 (GIWW) to Mile 2	02/04	100	2.0	9	9.8	9.5	7.2
Mile 2 to Mile 8	02/04	100	6.0	9	3.5	5.8	5.4
Mile 8 to Mile 13.5	02/01	100	5.5	9	0.5	9.0	7.3
Mile 13.5 to Mile 15.5	12/04	100	2.0	9	2.3	3.7	4.2
Turning Basin	12/04	100	0.1	9	6.2	11.3	11.6
CHANNEL TO PALACIOS							
Mile 0 (GIWW) to Light 40	03/05	125	10.0	12	9.0	9.0	9.5
Light 40 to City Basin	03/05	125	6.2	12	8.2	9.5	7.7
City Basin	03/05	150	0.1	12	12.5	12.6	12.2
Entrance Channel to Mun. Basin	03/05	400-130	0.1	12	13.0	12.0	11.8
Municipal Basin	03/05	240	0.2	12	13.0	13.0	13.0
CHANNEL TO PORT LAVACA AND RED BLUFF							
Port Lavaca Channel	05/04	125	4.1	12	10.0	10.0	10.0
Lynn Bayou Turning Basin	05/04	30-300	0.1	12	10.0	10.0	10.0
Port Lavaca Harbor of Refuge:							
Approach Channel	05/04	125	2.1	12	7.0	7.0	7.0
North-South Basin	05/04	300	0.3	12	13.7	14.0	13.0
East-West Basin	05/04	250	0.3	12	13.0	13.0	10.2
Extension to Red Bluff via Lavaca and Navidad Rivers:							
Mile 0 to Mile 6.5	06/04	100	6.5	6	1.2	1.3	1.1
Mile 6.5 to F.M. Rd. 616	6/99	100	13.7	6	4.0	4.0	4.0

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SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
CHANNEL TO VICTORIA							
Mile 0 (GIWW) to Mile 11	★ 04/05	100	11.0	12	10.0	11.5	★ 9.0
Westerly connecting 'Y' channel	★ 04/05	100	0.8	12	9.4	10.0	9.5
Mile 11 to Mile 14.0	08/04	100	3.0	12	10.0	12.0	9.8
Mile 14.0 to Mile 29	08/04	100	15.0	12	8.6	11.5	7.7
Mile 29 to Mile 34.7	08/04	100	5.7	12	12.0	14.5	12.0
Turning Basin	4/02	100-818	0.2	12	14.0	14.0	14.0
Connecting Channel to Seadrift	★ 04/05	100	2.0	12	7.5	7.5	7.0
Seadrift Turning Basin	★ 04/05	230	0.0	9	★ 10.0	★ 10.0	★ 10.0
CHANNEL TO FULTON							
Channel	08/04	100	0.5	12	6.0	7.0	6.0
Turning Basin	08/04	200	0.2	12	6.0	8.0	7.0
CHANNEL TO ROCKPORT							
Channel	08/04	100	6.8	9	9.0	9.0	9.2
Harbor Basin	08/04	350	0.2	9	4.5	8.0	7.5
CHANNEL TO ARANSAS PASS							
Channel	08/04	125-175	6.1	14	7.0	8.5	10.9
Turning Basin	08/04	300	0.4	14	13.6	14.0	14.4
Connecting Channel	08/04	125	0.1	14	15.0	15.5	15.0
Conn Brown Harbor	08/04	50-510	0.4	14	14.0	14.0	14.0
CHANNEL TO PORT ARANSAS							
Channel	10/04	100	0.2	12	5.9	5.5	5.5
Turning Basin	10/04	200-400	0.2	12	4.9	4.6	4.5

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PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	PROJECT DIMENSIONS				PROJECT CONDITIONS		
	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
CHANNEL TO PORT MANSFIELD							
Entrance Channel	★ 04/05	250	0.7	16	6.5	6.5	7.0
Mile 0.7 to Mile 1.3	07/04	100-300	0.6	14	13.2	13.4	14.0
Mile 1.3 to Mile 3	07/04	100	1.7	14	11.0	11.0	11.2
Mile 3 to Mile 6	07/04	100	3.0	14	13.2	13.3	13.9
Mile 6 to Main Channel (GIWW)	07/04	100	2.9	14	6.4	6.5	6.4
Entrance Curves	07/04	200	0.6	12	6.6	6.4	6.2
Main Channel to Turning Basin	07/04	125-200	0.9	14	7.0	8.0	8.3
Turning Basin	07/04	200-400	0.7	14	13.0	14.4	13.0
Shrimp Basin	07/04	350	0.3	12	12.2	12.5	12.3
CHANNEL TO PORT HARLINGEN							
North Wye	03/05		x	12	14.0	14.0	14.0
South Wye	03/05		x	12	14.0	14.0	14.0
Mile 0 to Mile 8	11/04	200-125	8.0	12	10.0	12.0	11.0
Mile 8 to Mile 20	11/04	125	12.0	12	10.0	11.2	9.0
Mile 20 to Mile 25.9	03/05	125	5.9	12	11.4	12.6	11.5
Turning Basin	03/05	400	0.1	12	16.0	16.0	16.0
SIDE CHANNELS AT PORT ISABEL							
60-foot channel	06/04	60	0.2	12	12.5	12.5	10.5
125-foot channel	06/04	125	1.1	12	10.0	10.0	9.0
125-foot Channel - South Leg	06/04	125	1.1	12	10.6	11.0	11.0
PORT ISABEL SMALL BOAT HARBOR							
					USABLE DIMENSIONS		
Entrance Channel	★ 04/05	75	1.5	9	5.0	★ 3.5	★ 2.0
Harbor Channel	★ 04/05	50	0.3	7	★ 4.5	★ 7.0	★ 7.0
Basin	★ 04/05	50-500	0.3	6	5.5	5.7	4.0

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SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left $\frac{1}{4}$ Channel (Feet)	Middle $\frac{1}{2}$ Channel (Feet)	Right $\frac{1}{4}$ Channel (Feet)
HOUSTON SHIP CHANNEL, TRIBUTARY CHANNELS							
CEDAR BAYOU							
Houston Ship Channel to U.S. Steel Dock	08/03	100	5.5	11	7.0	8.0	6.0
ATKINSON ISLAND							
Barge Mooring Basin	1/02	100-150	1.8	12	9.4	9.5	9.3
GREENS BAYOU CHANNEL							
First bend to Parker Brothers Slip	11/03	150-100	1.3	15	13.0	11.0	9.0
BRADY ISLAND CHANNEL							
Upstream from Cypress Str. Bridge	03/04	50	0.3	10	13.0	12.0	10.0
Downstream from Cypress Str. Bridge	03/04	50	0.5	10	7.0	8.0	8.0
CHANNEL IN BUFFALO BAYOU							
Houston Turning Basin to 69th Street Bridge	04/04	60	0.8	10	5.0	5.0	9.0
69th Street Bridge to Lockwood Drive Bridge	04/04	60	1.5	10	10.0	8.0	6.0
Lockwood Drive Bridge to Jensen St.Bridge	04/04	60	1.7	10	1.0	5.0	4.0
Turkey Bend Channel	02/03	60	0.8	10	7.3	9.7	5.3
Jensen Street Bridge to Southern Pacific Dock	3/94	60	0.6	9	10ft by 50ft		

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SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
USABLE DEPTHS IN OTHER SMALL ACTIVE CHANNELS					USABLE DIMENSIONS		
CHANNEL TO PORT BOLIVAR	4/99	200	0.1	14	18.0 ft by 200 ft		
DICKINSON BAYOU							
Light 2 to Light 27	10/03	60	9.9	6	6.0	5.0	5.0
Light 27 to Highway 146 Bridge	10/03	60	1.5	6	2.0	2.0	1.0
CHANNEL TO LIBERTY							
Houston Ship Channel to Smith Point	3/02	150	6.4	9	0.2	0.2	0.2
Anahauc	⑦ 03/04	100	6.4	6.0	4.0	4.0	3.0
Anahuac Channel to Texas Gulf Sulphur Slip	6/01	100	11.3	6.0	4.6	4.5	4.1
Texas Gulf Sulphur Slip to Devers Canal	2/94	100	9.5	6	4.0 ft at centerline		
Devers Canal to South Liberty Oil Field	7/01	100	12.2	6	+0.4' x 100'		
South Liberty Oil Field to Cut Off Channel	7/01	100	2.2	6	+0.1, +2.6, +1.5		
Cut Off Channel to Liberty	7/01	100	3.1	6	-3.2, +1.6, +2.6		
CLEAR CREEK AND CLEAR LAKE							
Entrance Channel	03/04	75	3.3	9	12.0	13.0	12.0
North Fork Channel	5/88	60	0.7	7	1.0 ft by 60 ft		
Clear Lake Channel	03/04	60	2.8	7	2.0	3.0	2.0
Clear Creek Channel	5/98		3.8		7.0 ft by 60 ft		
Five Mile Cut	12/04	125	1.9	12	11.0	12.0	11.0
JEWEL FULTON CANAL							
Canal	10/04	100	0.9	16	15.5	16.0	16.3
Basin	10/04		0.1	16	14.0	14.0	14.0
RINCON CANAL							
Approach Channel	08/04	100-567	2.9	10	6.0	6.0	7.5
Connecting Channel	08/04	275	0.4	10	8.0	8.0	8.0
Canal "A"	08/04	100-125	0.9	10	9.5	10.0	10.0
Turning Basin	08/04	275	0.1	10	11.0	11.0	11.0

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SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left ¼	Middle ½	Right ¼
					Channel (Feet)	Channel (Feet)	Channel (Feet)
Brownsville Fishing Boat Harbor							
Entrance Channel	07/04	100	0.2	15	17.0	16.5	13.0
Connecting Channel	07/04	265	0.2	15	14.6	14.5	14.1
West Connecting Channel	07/04	265	0.2	15	14.6	14.5	14.1
West Basin	07/04	305-370	0.3	15	14.0	14.3	15.0
Middle Basin	07/04	305-370	0.2	15	13.5	13.0	13.6
East Basin	07/04	305-370	0.1	15	13.0	13.5	13.4

NOTES:

- ① Entire area is not shoaled up. Shoaling 3,000 ft. west of Mile Marker 348.48 to Mile Marker 349.25
- ② Entire area is not shoaled. Minor shoaling from Mile Marker 349.25 to 300 ft. west of Mile Marker.
- ③ Entire area is not shoaled up. Minor shoaling from 283 ft. thru 683 ft. west of Mile Marker 400.61.
- ④
- ⑤ Minor shoaling at right toe 6,200 ft. West of Mile Marker 398.79.
- ⑥
- ⑦ The river portion of Anahuac Channel controlling depth are 0' Lt. Qtr., 1' Middle half, 3' Right Qtr.
- ⑧
- ⑨ Shoaling @ Mile Marker 667.2